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We question current trends that attempt to leverage virtualization techniques to achieve security goals. We suggest that the security role of a virtual machine centers on being policy interpreter rather than a resource provider. These two roles (security ...

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Maintenance is the dominant source of downtime at high availability sites. Unfortunately the dominant mechanism for reducing this downtime, cluster rolling upgrade, has two shortcomings that have prevented its broad acceptance. First, cluster-style ...

Keywords: availability, online maintenance, planned downtime, virtual machines

Also published in:

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Most grid security researches focus on user authentication and secure communication,

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the protection of grid computers is left to the underlying operating system. Unfortunately, most OS level protection mechanisms can be turned off after an attacker manages ...


Keywords: grid computing, secure grid system, virtual machine

4 [Flexible security configuration for virtual machines](#)

 [Sandra Rueda, Yogesh Sreenivasan, Trent Jaeger](#)

October 2008 **CSAW '08: Proceedings of the 2nd ACM workshop on Computer security architectures**

Publisher: ACM

Full text available:  [Pdf](#) (517.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Virtual machines are widely accepted as a promising basis for building secure systems. However, while virtual machines offer effective mechanisms to create isolated environments, mechanisms that offer controlled interaction among VMs are immature. Some ...

Keywords: access control, compliance, policy, virtual machines

5 [Reviews: Review of Scalent's virtual operating environment](#)

[Logan G. Harbaugh](#)


October 2008 **Linux Journal**, Volume 2008 Issue 174

Publisher: Specialized Systems Consultants, Inc.

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6 [FIDES: An advanced chip multiprocessor platform for secure next generation mobile terminals](#)

 [Hiroaki Inoue, Junji Sakai, Sunao Torii, Masato Eda](#)

December 2008 **Transactions on Embedded Computing Systems (TECS)**, Volume 8 Issue 4

Publisher: ACM


Full text available:  [Pdf](#) (2.20 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 198, Citation Count: 0

We propose a secure platform on a chip multiprocessor, FIDES, in order to enable next generation mobile terminals to execute downloaded native applications for Linux. Its most important feature is the higher security based on multigrained separation ...

Keywords: SELinux, Secure mobile terminal, chip multiprocessor

7 [Dynamic and adaptive updates of non-quiescent subsystems in commodity operating system kernels](#)

 [Kristis Makris, Kyung Dong Ryu](#)

June 2007 **EuroSys '07: Proceedings of the 2nd ACM SIGOPS/EuroSys European Conference on Computer Systems 2007**

Publisher: ACM

Full text available:  [Pdf](#) (452.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 92, Citation Count: 2

Continuously running systems require kernel software updates applied to them without downtime. Facilitating fast reboots, or delaying an update may not be a suitable solution.

in many environments, especially in pay-per-use high-performance computing ...

Keywords: DynAMOS, adaptive operating system, dynamic instrumentation, dynamic software updates, function cloning

Also published in:


June 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 3

8 [Making information flow explicit in HiStar](#)

[Nikolai Zeldovich](#), [Sillas Boyd-Wickizer](#), [Eddie Kohler](#), [David Mazières](#)

November 2006 **OSDI '06**: Proceedings of the 7th symposium on Operating systems design and implementation

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Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 52, Citation Count: 5


HiStar is a new operating system designed to minimize the amount of code that must be trusted. HiStar provides strict information flow control, which allows users to specify precise data security policies without unduly limiting the structure of applications. ...

9 [FIDES: an advanced chip multiprocessor platform for secure next generation mobile terminals](#)

[Hiroaki Inoue](#), [Akihisa Ikeno](#), [Masaki Kondo](#), [Junji Sakai](#), [Masato Edahiro](#)

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Publisher: ACM

Full text available:  [Pdf](#) (295.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 37, Citation Count: 4

We propose a secure platform on a chip multiprocessor, known as FIDES, in order to enable next generation mobile terminals to execute downloaded native applications for Linux. Its most important feature is the higher security based on multi-grained separation ...

Keywords: chip multiprocessor, linux, secure mobile terminal

10 [Evil twins: two models for TCB reduction in HPC clusters](#)

[Jacob Gorm Hansen](#), [Eske Christiansen](#), [Eric Jul](#)

July 2007 **SIGOPS Operating Systems Review**, Volume 41 Issue 4

Publisher: ACM

Full text available:  [Pdf](#) (1.13 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 73, Citation Count: 0


Traditional high performance computing systems require extensive management and suffer from security and configuration problems. This paper presents two generations of a cluster-management system that aims at making clusters as secure and self-managing ...

11 [Enabling scalability and performance in a large scale CMP environment](#)

[Bhaskar Saha](#), [Ali-Reza Adl-Tabatabai](#), [Anwar Ghuloum](#), [Mohan Rajagopalan](#), [Richard L. Hudson](#), [Leaf Petersen](#), [Vijay Menon](#), [Brian Murphy](#), [Tatiana Shpeisman](#), [Eric Sprangle](#), [Anwar Rohillah](#), [Doug Carmean](#), [Jesse Fang](#)

June 2007 **EuroSys '07**: Proceedings of the 2nd ACM SIGOPS/EuroSys European Conference on Computer Systems 2007

Publisher: ACM

Full text available:  Pdf (248.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 41, Downloads (12 Months): 443, Citation Count: 3

Hardware trends suggest that large-scale CMP architectures, with tens to hundreds of processing cores on a single piece of silicon, are imminent within the next decade. While existing CMP machines have traditionally been handled in the same way as SMPs, ...


Keywords: memory management, multi-core processors, parallel programming, runtime design, scheduler design, sequestered mode, synchronization primitives, transactional memory

Also published in:

June 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 3

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